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State of South Carolina

EIGHTH ANNUAL REPORT,
of the
State Board of
Engineering Examiners
to the
GOVERNOR



1930

For Year Ending June 30, 1930

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EIGHTH ANNUAL REPORT
of the
State Board of
Engineering Examiners
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GOVERNOR



1930

For Year Ending June 30, 1930

Letter of Transmittal

TO THE GOVERNOR

COLUMBIA, S. C., August 20, 1930.

*To His Excellency, HON. JOHN G. RICHARDS,
Governor of South Carolina,
Columbia, S. C.*

SIR:

In compliance with Section 6, of an Act providing for the creation of a State Board of Engineering Examiners and regulating the practice of engineering in the State of South Carolina, we have the honor to transmit this Eighth Annual Report of the activities of the Board, together with a statement of receipts and expenditures and a list of those registered in accordance with the Act.

The Board desires to express its appreciation of the cooperation and assistance received from your office and other State departments.

Respectfully submitted,

STATE BOARD OF ENGINEERING EXAMINERS,

L. S. LeTELLIER, *Chairman*,

Attest:

T. KEITH LEGARE, *Secretary*.

Personnel of South Carolina State Board of Engineering Examiners

L. S. LeTELLIER, *Chairman*, Charleston,
Head, Department of Engineering, The Citadel; The Military
College of South Carolina.

G. E. SHAND, *Vice-Chairman*, Columbia.
President, Shand Engineering & Sales Company.

T. KEITH LEGARÉ, *Secretary*, Columbia,
President, Legaré Engineering Company,
Sec. Treas. Natl. Council State Boards of Engineering Examiners.
Member, American Society of Civil Engineers,
Member, American Society for Municipal Improvements.

W. S. TOMLINSON, Columbia,
City Engineer, City of Columbia,
President, Tomlinson Engineering Company,
Member, American Society for Municipal Improvements.

GEORGE WRIGLEY, Greenville,
In Charge Electrical Dept., J. E. Sirrine & Co., Engineers,
Member, American Institute of Electrical Engineers,
Member, National Electric Light Association.

REPORT

of the

State Board of Engineering Examiners

ACTIVITIES OF THE BOARD

Two regular meetings were held by the Board during the past year, these being in Columbia, on July 9, 1929 and December 3, 1929. At these meetings fourteen (14) engineers and four (4) surveyors were approved by the Board for registration. The number of registrants in good standing as of January 1, 1930 were—professional engineers 221, and registered land surveyors 36.

The cost of administration is given in detail on page 8, in the financial report, and it will be noted that the annual receipts and disbursements very nearly balance. A questionnaire recently sent out by the National Council of State Boards of Engineering Examiners shows that the average cost of administering the engineering registration laws in nineteen states is almost exactly double the cost in South Carolina and that, with the exception of two western states, the South Carolina Board expends less than any other for Secretary's salary, clerical help and total expenses.

During the past year the Board has made special efforts to enforce the engineering registration law, but has endeavored to do so without recourse to the courts. Many cases have been adjusted by the prompt cooperation of those concerned or by compliance with the demands of the Board that violators discontinue the practice of engineering, or the use of the title "Engineer" when not registered in accordance with the law, however, those refusing to cooperate in this matter may necessitate court procedure. If the professional engineers of South Carolina continue to support the Board in its difficult and sometimes unpleasant task of administering this law, the Board is determined to eventually create a higher respect for the title "Engineer," and while its principal duty is to protect and advance the interest of the public the result will no doubt be an improvement in the status of the engineering profession.

MEETINGS, FEES, RENEWALS, ETC.

Regular meetings of the Board are held on the second Tuesday of July and the first Tuesday of December of each year. All applications for registration must be made out on blanks provided by the Board, accompanied by the required fee and filed with the Secretary of the Board at least ten days before meetings. The fee of \$15.00 required by law before an applicant can be admitted to examination

will not be returned after candidate has taken examination irrespective of whether he passes or fails; nor will fee be returned if candidate fails to appear after being duly notified to report for examination, but the Board may at its discretion admit the candidate to a subsequent examination without additional examination fee.

All certificates of registration expire on June 30th of each year and those who continue to practice after that date without renewal will be violating the law. The annual renewal fee of \$5.00 for engineers and \$3.00 for land surveyors is payable on or before the 3rd Tuesday of June. Only one fee of \$5.00 is required when classification includes both engineer and surveyor. Registrations automatically revoked because of non-payment of renewal fees can be reinstated upon payment of all unpaid annual renewal fees: provided, however, that the Board reserves the right to review the records of applicants to determine their eligibility and, if deemed advisable, to require examinations of these applicants. The Board, for reasons it may deem sufficient, may reissue a certificate of registration to any person whose certificate has been revoked.

RECIPROCAL REGISTRATION

Reciprocal registration with other states is provided for in the South Carolina Act. Articles of Agreement on Reciprocal Registration have been adopted by the National Council of State Boards of Engineering Examiners and accepted by the South Carolina Board. The requirements for securing a national reciprocity certificate are given in full elsewhere in this report. The engineer whose practice extends into other states will find the conditions of registration greatly simplified in those states which have ratified this agreement.

The Board charges no fee for issuing a certificate of reciprocity but registrants are requested not to apply for this certificate if they have no need for it and unless convinced that they possess the qualifications required. Special application forms for reciprocal registration will be furnished by the Board.

HISTORY OF SOUTH CAROLINA ACT

The Act providing for the creation of a State Board of Engineering Examiners and the registration of professional engineers and land surveyors was passed by the State Legislature of South Carolina at the 1922 session and was approved by Gov. R. A. Cooper on March 22, 1922. The Act as now amended was approved by Governor John G. Richards on March 10, 1928.

The members of the Board were appointed and commissioned by Governor Wilson G. Harvey on May 31, 1922 and were as follows: G. E. Shand of Columbia; George Wrigley of Greenville; L. S. LeTellier of Charleston; W. S. Tomlinson of Columbia; and T. Keith Legare of Columbia.

The Board held its first meeting in Columbia on June 17, 1922, and was organized by the election of officers and the appointment of committees. The present officers and members of the Board are given on page 4. Mr. Wrigley has resigned as a member of the Board, but his successor has not yet been appointed.

GENERAL STATUS OF ENGINEERING REGISTRATION IN THE UNITED STATES

The following states have adopted engineering registration laws: Arizona, Arkansas, California, Colorado, Florida, Idaho, Indiana, Iowa, Louisiana, Michigan, Minnesota, Mississippi, New York, North Carolina, Oregon, South Carolina, South Dakota, Tennessee, Virginia, West Virginia, Wyoming, New Jersey, Pennsylvania, and Illinois (structural engineers only). The National Council of State Boards of Engineering Examiners is composed of all the State Boards except New Jersey, Pennsylvania, and Illinois and the purpose of the Council is "to examine the state laws providing for registration of engineers and the customs and rules of procedure of the different Boards in the examination of applicants, to consider suggestions and recommendations for uniformity of practice, so far as the same can legally be done by the different State Boards, and to provide for reciprocal relations between the State Boards for granting registration to applicants from other states on equal terms of examinations."

All national engineering societies are now taking an active interest in the subject of registration of engineers and under the auspices of the Committee on Registration of Engineers, of American Society of Civil Engineers, representatives of these societies have recently compiled "A Recommended Uniform Registration Law for Professional Engineers and Land Surveyors." This recommended uniform law is being widely distributed and will probably be used as a guide in the framing of new registration laws and the amending of existing laws, with a view of attaining a uniform high standard throughout the United States. The South Carolina Board has officially endorsed the recommended uniform law and its Secretary served as chairman of the Committee which compiled this law.

A few years ago the subject of registration for engineers was discussed by engineering societies and the profession in general from the viewpoint of whether registration was expedient and would result in benefit to either the profession or the public, but the movement has made such progress that it is now considered more a question of selecting the best forms of laws and adopting the best methods of procedure in administering these laws.

Financial Statement

STATEMENT OF RECEIPTS AND DISBURSEMENTS

July 1, 1929 to June 30, 1930

Balance July 1, 1929	\$ 1,007.96
Receipts:	
Registration and Renewal Fees.....	1,533.00
Interest Credited by State Treasurer.....	7.20
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	\$ 2,548.16
Disbursements:	
Requisitions on Comptroller General.....	\$ 1,620.57
Cash Balance, June 30, 1930	927.59
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	\$ 2,548.16

ANALYSIS OF DISBURSEMENTS

July 1, 1929 to June 30, 1930

Salaries (Secretary)	\$ 600.00
Per Diem of Board Members.....	100.00
Clerical Help	240.00
Travel	331.72
Printing	225.95
Advertising	26.00
Insurance (Bond Renewal)	15.00
Office Supplies90
Postage	15.00
Association Dues (National Council).....	50.00
Refund of Delinquent Fee Penalties.....	16.00
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	\$ 1,620.57

*Hon. Albert S. Fant, State Bank Examiner,
Columbia, South Carolina.*

Dear Sir:

In compliance with the law we have audited the accounts of the South Carolina Board of Engineering Examiners covering the period beginning July 1, 1929, and ending June 30, 1930.

The records of the Board are kept in excellent condition and all cash of record is fully accounted for.

Our report is inclosed herewith.

Respectfully submitted,

J. M. SMITH,

State Auditor.

Columbia, S. C., July 3, 1930.

State of South Carolina, County of Charleston,

I, L. S. LeTellier, Chairman of the State Board of Engineering Examiners, do hereby certify that the financial statement herewith rendered of the State Board of Engineering Examiners is true to my own knowledge, except those matters and facts stated on information and belief, and as to those, I believe it to be true.

(Signed) L. S. LeTELLIER,

Subscribed and sworn to before me, this 28th day of July, 1930.

(Signed) O. J. BOND,
Notary Public for S. C.

State of South Carolina, County of Richland,

I, T. Keith Legaré Secretary of the State Board of Engineering Examiners, do hereby certify that the financial report herewith rendered is a correct statement of the finances of the State Board of Engineering Examiners for the period specified.

(Signed) T. KEITH LEGARE,

Subscribed and sworn to before me, this 24th day of July, 1930.

(Signed) WM. A. CRARY, JR.,
Notary Public for S. C.

ROSTER OF

Registered Professional Engineers and Land Surveyors

Authorized to Practice in the State of South Carolina as of August 30, 1930.

NOTE—IMPORTANT THAT SECRETARY BE NOTIFIED OF CHANGES IN POSITION OR ADDRESS.
Key to Abbreviations in Classification:

C.E., Civil Engr.; E.E., Electrical Engr.; E.M., Mining Engr.; M.E., Mechanical Engr.; L.S., Land Surveyor.

Name and Position	Address	Classification	Date	Certificate No.
ADAMS, D. G., City Engineer.	City Hall, Spartanburg, S. C.	C.E., L. S.	3-22-23	70
ADAMS, J. K., Chief Struct. Designer, J. E. Sirrime & Co.	Greenville, S. C.	C.E.	3-22-23	72
ALBERGOTTI, W. M., Mech. Engr., Gibbs Machinery Co.	105 Southwood Road, Columbia, S. C.	M.E., E.E.	12-5-22	38
ANDERSON, JOHN, Prof. Civil Engineering, The Citadel	Charleston, S. C.	C.E.	9-14-22	7
ANDERSON, N. S., Asst. to State Highway Engineer	Columbia, S. C.	C.E., E.M.	3-22-23	246
BAILEY, O. A., Chief Engr., Chicago Bridge & Iron Works.	1305 West 105th St., Chicago, Ill.	C.E.	11-19-23	277
BAKER, H. J., Pres. and Gen. Mgr., Hugh J. Baker & Co.	P. O. Box 892, Indianapolis, Ind.	C.E., M.E.	1-27-27	317
BALDWIN, C. M., Civil Engr., Atlantic Coast Lumber Corp.	205 Dozier St., Georgetown, S. C.	C.E., L.S.	9-14-22	9
BALL, THOMAS F., Head Dept. of Electrical Eng., U. S. C.	University of S. C., Columbia, S. C.	E.E.	7-8-30	358
BALLENGER, C. P., Engr. Ballenger Paving Co.	226 Emacee Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	73

BANGS, P. C., Heating Engr., Warren Webster & Co.	153 Nassau St., N. W., Atlanta, Ga.	M.E.	12-7-26	311
BARNWELL, J. W., Jr., Bridge Engr., State Highway Dept.	Columbia, S. C.	C.E., M.E., L.S.	3-22-23	87
BECKHAM, W. K., Maintenance Engr., State Highway Dept.	Columbia, S. C.	C.E., L.S.	9-14-22	10
BEEBE, HARWOOD, Municipal and Civil Engineer.	Montgomery Bldg., Spartanburg, S. C.	C.E., L.S.	3-22-23	88
BELLENGER, HARRY O'B., Asst. City Engr.	City Hall, Columbia, S. C.	C.E.	3-22-23	86
BISHOP, G. H., Cons'l. Engr., Carolina Engineering Co.	P. O. Box 1288, Charlotte, N. C.	C.E., L.S.	12-5-22	65
BISHOP, R. P., Town Manager.	Salem, Va.	C.E., L.S.	12-5-22	40
BLACKWELDER, C. D., J. E. Sirrine & Co., Engrs.	P. O. Box 226, Greenville, S. C.	C.E., M.E.	6-22-26	306
BOESCH, CLARENCE E., Southern Representative Morse Boulger Destructo'r Co.	P. O. Box 423, Durham, N. C.	C.E., M.E., E.E.	12-5-22	41
BOONE, L. C., County Engineer, Orangeburg County.	Orangeburg, S. C.	C.E.	9-14-22	11
BOWEN, S. H., City Engineer and Land Surveyor.	Easley, S. C.	C.E., L.S.	3-22-23	75
BOYKIN, A. B., Land Surveyor.	P. O. Box 53, Camden, S. C.	L.S.	3-22-23	76
BOYKIN, L. W., Jr., Land Surveyor.	Aiken, S. C.	L.S.	7-10-28	324

BRIGGS, W. A., Engr. and Contractor.	Capers Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	83
BROWN, ALEC T., Civil Engineer and Land Surveyor.	Orangeburg, S. C.	C.E., L.S.	3-22-23	79
BROWN, D. P., Mgr. Land Dept., Wilson Cypress Co.	622 River St., Palatka, Fla.	C.E., L.S.	3-22-23	84
BULL, J. L., Jr., Principal Winyah High School.	202 Cannon St., Georgetown, S. C.	C.E., L.S.	7-8-30	357
BURDEN, HENRY S., Civil Engr. and Architect	67 Broad St., Charleston, S. C.	C.E.	3-22-23	78
BURSLEY, HAROLD B., Assoc. Engr., E. S. Draper.	1516 E. Fourth St., Charlotte, N. C.	C.E.	7-8-30	349
BUSSEY, H. E., Dist. Engr., General Electric Co.	Atlanta, Ga.	M.E., E.E.	4-21-25	293
CAMPBELL, C. D., Asst. Div. Engr., State Highway Dept.	Columbia, S. C.	C.E., L.S.	3-22-23	90
CANNON, O. B., Supt. of Newberry Schools and Land Surveyor.	Newberry, S. C.	L.S.	12-5-22	63
CATHEY, W. C., Civil Engr. and Land Surveyor.	Route 9, Box 45, Charlotte, N. C.	C.E., L.S.	3-22-25	97
CHAPMAN, ROBT. H., Steam Engineering Dept., J. E. Serrine & Co.	Greenville, S. C.	M.E.	3-22-23	99
CHRISTENSEN, ARTHUR O., Registered Surveyor.	Beaufort, S. C.	E.M., L.S.	7-8-30	354
COGGESHALL, J. W., Res. Engr., State Highway Dept.	144 Spring St., Darlington, S. C.	C.E., L.S.	3-22-23	96
COVINGTON, JAMES C., Civil Engr. and Surveyor.	3005 Blossom St., Columbia, S. C.	C.E., L.S.	7-9-29	333

CRAWFORD, JAMES ROY,	Clinton, S. C.	L. S.	12-4-28	331
CRAWFORD, R. T., Civil Engineer.	17½ Franklin St., Charleston, S. C.	C. E.	3-22-23	92
DALTON, R. E., Civil Engr., Dalton & Neves.	125½ S. Main St., Greenville, S. C.	C. E.	12-5-22	64
DAWSON, LOUIS Y., Const. Engr., S. C. Power Co., Pres. Dawson Engineering Co.	P. O. Box 535, Charleston, S. C.	C. E., L. S.	12-5-22	42
DAWSON, L. Y., Jr., Vice-Pres., Dawson Engineering Co.	21 Broad St., Charleston, S. C.	C. E., L. S.	3-22-23	101
DICKSON, W. K., Civil Engineer.	119 Brevard Court, Charlotte, N. C.	C. E., L. S.	7-8-30	351
DINGLE, J. H., City Engineer.	City Hall, Charleston, S. C.	C. E., L. S.	9-14-22	14
DUNBAR, THOS. E., Civil Engr. and Land Surveyor.	901 W. 6th St., Plainsfield, N. J.	C. E., L. S.	3-22-23	104
DURANT, C. E., Land Surveyor.	Cottageville, S. C.	L. S.	3-22-23	243
EARLE, HARRY U., Land Surveyor.	Office Probate Judge, Walhalla, S. C.	L. S.	12-5-22	43
ELSON, J. C., Gen. Supt., Simons-Mayrant Co.	506 Peoples Bldg., Charleston, S. C.	C. E.	3-22-23	107
EMERSON, C. L., Vice-Pres. and Chief Engr., Robert & Company.	706 Bona-Allen Bldg., Atlanta, Ga.	C. E., E. E., M. E.	7-9-29	335
EMERSON, L. A., Sec. & Treas., Tomlinson Engr. Co.	1226 Sumter St., Columbia, S. C.	C. E., L. S.	9-14-22	15

ERVIN, A. L., Adams & Ervin, Engrs.	P. O. Box 3, Florence, S. C.	C.E., L.S.	3-22-23	105
EVANS, C. D., Engineer.	Drawer 600, Marion, S. C.	C.E., L.S.	3-22-23	106
EVANS, R. M., Civil Engr. and Land Surveyor.	Bennettsville, S. C.	C.E., L.S.	3-22-23	108
FILBY, E. L., Chief Engr., State Board of Health.	Jacksonville, Fla.	C.E.	3-22-23	114
FLOOD, HENRY, Jr., Murray & Flood, Engrs.	369 Lexington Ave., New York, N. Y.	C.E., E.E.	7-8-30	350
FORD, G. T., Engineering and Land Surveying.	222 Cannon St., Georgetown, S. C.	C.E., L.S.	9-14-22	17
FOSTER, J. W.,	Box 444, Summerville, S. C.	C.E.	3-22-23	111
FRANK, J. N., Civil Engineer and Surveyor.	Walterboro, S. C.	C.E., L.S.	6-19-23	263
FRY, E. D., Supt. Greater Greenville Sewer District Comm.	Poinsett Hotel Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	112
GAILLARD, J. P., Civil Engr. and Timber Estimator.	514 Peoples Bldg., Charleston, S. C.	C.E.	3-22-23	117
GARETY, J. H., Engr., Port Utilities Comm.	1 Vendue Range, Charleston, S. C.	C.E.	12-3-29	345
GARRISON, L. CLYDE, Civil Engineer.	Seneca, S. C.	C.E., L.S.	3-22-23	116
GASQUE, B. M., Land Surveyor.	Marion, S. C.	L.S.	3-22-23	236
GIBSON, J. E., Mgr. and Engr., Water Dept.; Commissioners of Public Works.	14 George St., Charleston, S. C.	C.E.	3-22-23	244

GILLESPIE, W. L., Civil Engineer and Surveyor.	P. O. Box 337, Cheraw, S. C.	C.E., L.S.	3-22-23	118
GOURDIN, P. G., Civil Engineer and Surveyor.	Kingstree, S. C.	C.E., L.S.	9-14-22	18
GREENE, J. C., U. S. Engineer's Office.	807 McCall Bldg., Memphis, Tenn.	C.E., L.S.	9-14-22	19
GUNTER, GEO. C., Land Surveyor.	Seivern, S. C.	L.S.	12-5-22	45
HAMBY, THEOD. C., Lexington Water Power Co.	Columbia, S. C.	C.E., L.S.	12-5-22	46
HAMPTON, AMBROSE G., Res. Engineer, S. C. State Highway Dept.	Walterboro, S. C.	C.E., L.S.	3-22-23	132
HARDESTY, SHORTRIDGE, Waddell & Hardesty.	150 Broadway, New York, N. Y.	C.E.	12-4-28	330
HARRIS, W. E., Res. Engr., S. C. State Highway Dept.	Columbia, S. C.	C.E., L.S.	3-22-23	123
HARRISON, F. P., Engr., Marge, Alger & Vinon.	Atlanta, Ga.	E.E.	3-22-23	137
HAWES, EDWARD, City Engineer.	Orangeburg, S. C.	C.E., L.S.	3-22-23	136
HESTER, W. A., Land Surveyor.	Route 1, Daucusville, S. C.	L.S.	3-22-23	124
HICKLIN, W. J., Capitol Concrete Co.	122 Palmetto Ave., South Jacksonville, Fla.	C.E.	3-22-23	121
HILL, GEORGE, Engineer.	Greer, S. C.	M.E., E.E.	6-19-23	266

HILL, BURROW, Maintenance Supv., S. C. State Highway Dept.	Greenville, S. C.	C.E.	3-22-23	134
HIPP, J. C., Engr., Lockwood-Greene Engrs., Inc.	Montgomery Bldg., Spartanburg, S. C.	C.E., L.S.	11-15-29	341
HOLMAN, A. E., Chief Engr., Gossett's Group of Mills.	Anderson, S. C.	E.E., M.E.	3-22-23	120
HOLMES, W. F., Walter Kidde Constructors.	140 Cedar St., New York, N. Y.	C.E.	3-22-23	133
HOLT, D. T., Land Surveyor.	Wateree, S. C.	L.S.	3-22-23	126
HOWE, G. M., Asst. City Engineer.	P. O. Box 807 Charleston, S. C.	C.E., L.S.	9-14-22	20
HULICK, D. A., City Engineer.	City Hall, Greenville, S. C.	C.E., L.S.	3-22-23	130
HUMBERT, H. B., County Engineer.	557 Gadsden Court, Spartanburg, S. C.	C.E., L.S.	12-5-22	47
HUNTINGTON, R. S., Huntington & Guerry, Inc.	Greenville, S. C.	E.E.	6-22-26	304
JAMES, R. T., Civil Engineer.	1706 Elizabeth Ave., Charlotte, N. C.	C.E., L.S.	11-19-23	278
JERVEY, E. D., Engr. Sanitary and Drainage Commission.	39 Broad St., Charleston, S. C.	C.E.	3-22-23	144
JOHN, D. M., County Engineer.	P. O. Box 168, Lancaster, S. C.	C.E., L.S.	12-3-29	254
JOHNSON, CECIL, Res. Engr., S. C. State Highway Dept.	Columbia, S. C.	C.E.	3-22-23	141
JOHNSON, J. M., Johnson & Roberts, Engrs. and Surveyors.	Marion, S. C.	C.E., L.S.	3-22-23	146

JORDAN, T. M., Res. Engr., Myrtle Beach Estates, Inc.	Myrtle Beach, S. C.	C.E.	7-9-29	334
KEELS, JOSEPH, Engr., Tomlinson Engineering Co.	1226 Sumter St., Columbia, S. C.	C.E., L.S.	12-5-22	49
KERR, LORAN A., Mgr. & Treas., Eureka Land Co.	Box 44, Cheraw, S. C.	L.S.	3-22-23	149
KESTER, H. H., Supt. of Supply, State Highway Dept.	524 Wilson Ave., Columbia, S. C.	C.E.	3-22-23	152
KOLLOCK, J. T., Forest Engineer.	4 Broad St., Charleston, S. C.	C.E.	3-22-23	150
LaBRUCE, GEO. H., Asst. Engr., Sanitary and Drainage Comm.	13 Savage St., Charleston, S. C.	C.E., L.S.	3-22-23	156
LaBRUCE, J. B., Supt. of Const., Simons-Mayrant Co.	131 Ashley Ave., Charleston, S. C.	C.E., M.E., L.S.	3-22-23	157
LEE, F. W., National Cement Co.	P. O. Box 146, Columbia, S. C.	C.E., L.S.	9-14-22	23
LEE, RANDOLPH B., Civil Engineer.	P. O. Box 128, Summersville, S. C.	C.E., L.S.	3-22-23	162
LEGARÉ, A. E., State Sanitary Engr., State Board of Health.	State Office Bldg., Columbia, S. C.	C.E., L.S.	6-23-25	296
LEGARÉ, T. KEITH, Pres. Legaré Engineering Co.; Sec. State Board Engineering Examiners; Sec.-Treas., Nat'l. Council State Boards Eng. Exmrs.	P. O. Box 264, 1226 Sumter St., Columbia, S. C.	C.E., L.S.	9-14-22	3
LeTELLIER, L. S., Head, Dept. of Chairman State Board of Eng. Examiners.	The Citadel, Charleston, S. C.	C.E.	9-14-22	2
LEVER, S. R., Res. Engr., Parker Laboratories.	Box 1491, Knoxville, Tenn.	C.E.	6-19-23	267

LEWIS, W. S., Civil Engr., State Highway Commission.	305 Bath St., Clifton Forge, Va.	C.E.	3-22-23	160
LINDER, THOS. T., Registered Surveyor.	Route 1, Spartanburg, S. C.	L.S.	3-22-23	154
LINDSAY, WM., Jr., Res. Engr., J. E. Sirrine & Co.	Greenville, S. C.	C.E., L.S.	3-22-23	158
LUTEN, DANIEL B., Des. Cons'l. Engineer.	1056 Consolidated Bldg., Indianapolis, Ind.	C.E.	12-5-22	50
MAHAFFEY, L. M., Surveyor and County Supt. of Education.	Anderson, S. C.	L.S.	3-22-23	169
MANHEIM, C. M., Asst. Engr., Johnson & Roberts.	Marion, S. C.	C.E., L.S.	3-22-23	260
MARSH, M. R., Architect and Engineer.	224 Latta Arcade, Charlotte, N. C.	C.E.	3-25-25	291
MAULDIN, EARLE, Engr., The Park Mfg. Co.	P. O. Box 423, Charlotte, N. C.	C.E., M.E.	3-22-23	251
MAYES, JAS. B., Maintenance Supv., State Highway Dept.	Florence, S. C.	C.E.	9-14-22	25
MAYRANT, W. R., Gen. Mgr., Simons-Mayrant Co., Engrs. and Contractors.	506 Peoples Office Bldg., Charleston, S. C.	C.E.	3-22-23	168
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WESTON, WILLIAM, C., Field Engr., State Board of Health.	State Office Bldg., Columbia, S. C.	C.E.	3-22-23	225
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Deceased: B. R. Cowherd, Jr; T. H. Hardin; Paul H. Norcross; H. C. Hightower; Arthur G. Boozer; Nisbet Wingfield; Adlai Osborne; H. G. Jones; B. G. Langford; H. S. Jaudon; B. M. English; S. R. Flowers; J. L. Ludlow.

South Carolina Registration Law

Approved March 22, 1922: Amended March 10, 1928.

An Act Providing for the Creation and Establishment of a State Board of Engineering Examiners, Granting Certain Powers to and Prescribing the Duties of Said Board; Providing for the Examination and Registration Of Land Surveyors and Professional Engineers, Regulating the Practice of Engineering in the State of South Carolina and Providing Penalties for The Violation of This Act.

Section 1. That in order to safeguard life, health and property, any person practicing or offering to practice professional engineering or land surveying hereafter in this State shall be required to submit evidence that he or she is qualified so to practice, and shall be registered as hereafter provided; and that it shall be unlawful for any person to practice or to offer to practice professional engineering or land surveying in this State unless such person, has been duly registered as a professional engineer or land surveyor, or has been exempted from registration under the provisions of this Act. Provided, That the provisions of this Act shall not apply to land surveyors unless they desire to hold themselves out as "registered land surveyors."

Section 2. Under no circumstances shall the total amount of warrants issued by the State Auditor in payment of the expenses and compensations provided in this Act exceed the amount of the examination and registration fees collected as herein provided.

Sec. 3. As used in this Act:

(a) The "Board" means the State Board of Engineering Examiners provided for by this Act.

(b) "Surveyors." Any person who shall be engaged in locating, establishing or relocating any land boundary line between two or more land owners, or who shall be engaged in locating any United States Government, State, County, Township or Municipal land survey lines, or the lines of any public streets or roads, is hereby declared to be a Surveyor and as practicing land surveying within the provisions of this Act.

(c) Any person who shall be engaged in the designing or supervising of the construction, enlargement or alteration of any engineering structure, or utilities, as hereafter defined, or any part thereof for others and to be constructed by persons other than himself, shall be regarded as practicing Professional Engineering within the meaning of this Act. The practicing of professional engineering within meaning of this Act embraces the design and the supervision of the construction of public and private utilities, such as railroads, bridges, highways, roads, canals, harbors, river improvements, lighthouses, wet docks, dry docks, ships, barges, dredges, cranes, floating docks and other floating property, the design and the supervision of the construction of steam engines, turbines, internal combustion engines and other mechanical structures, electrical machinery and apparatus, and of works for the development, transmission or application of power, the design and the supervision of mining operations and of processes and apparatus for carrying out such operations, and the design and supervision of the construction of municipal works, irrigation works, water supply works, sewerage works, drainage works, industrial works, sanitary works, hydraulic works and structural works and of other public or private utilities or works which require for their design or supervision of the construction such experience

and technical knowledge as are required in Section 8 of this Act. The execution as a contractor of works designed by a professional engineer or the supervision of the construction of such work as a foreman or superintendent for such a contractor shall not be deemed to be the practice of professional engineering within the meaning of this Act.

(d) "Engineer" means any person who practices professional engineering.

Section 4. There is hereby created a State Board of Engineering Examiners consisting of five members to be appointed by the Governor within sixty (60) days after the passage of this Act. Three members of the Board shall be civil engineers, one a mining or electrical engineer, and the other one a mechanical engineer or naval architect. Of the members of the Board first appointed hereunder two shall hold office for a term of two years, two shall hold office for a term of three years, and one shall hold office for a term of four years, each term of office ending the first day of July. Upon expiration of each of such terms the term of office of each member thereafter appointed shall be four years. Each member shall hold over the expiration of his term until his successor shall be duly appointed and qualified. The Governor may remove any member of the Board for misconduct, incapacity or neglect of duty. Vacancies in the Board caused by death, resignation or removal from office shall be filled by appointment by the Governor for the unexpired term. Each member of the Board shall be a professional engineer of at least ten years active experience and of recognized good standing in his profession and shall be at least thirty-five years of age and shall have been a resident of this State for at least three years immediately preceding this appointment. Each member of said board, except the members first appointed hereunder, shall also be registered as a professional engineer under this Act. The members of the Board shall receive as compensation, the sum of ten (\$10.00) dollars per day for the time actually spent in traveling to and from and in attending sessions of the Board and its committees, and each member shall receive all necessary expenses incident to the performance of his duties under this Act.

Section 5. Every member of the Board shall receive a certificate of his appointment from the Governor and before beginning his term of office shall file with the SECRETARY OF STATE his written oath for the faithful discharge of his official duty. Each member of the Board first appointed hereunder shall receive a certificate of registration under this Act from said Board. The Board shall adopt and have an official seal. The Board may make all by-laws and rules not inconsistent with law needed in performing its duties; but no by-laws or rule by which more than a majority vote is required for any specified action by the Board shall be amended, suspended or repealed by a smaller vote than that required for action thereunder.

Section 6. The Board shall annually elect from its members a chairman, a vice-chairman and a secretary. The secretary shall give a surety bond in the sum of three thousand (\$3,000.00) dollars conditioned for the faithful performance of his duties and for the accounting and paying over of all moneys received by him. The premium on said bond shall be paid from the fund of the Board hereinafter provided. The secretary shall keep on file a record of all certificates of registration granted. He shall receive and account for all fees derived from the operation of this Act, and shall pay to the State Treasurer, who shall keep such moneys in a separate fund, to be known as the Fund of the Board of Engineering Examiners, continued from year to year to be drawn against only for the expenses of the Board. Warrants for the payment of the expenses incurred shall be issued by the Comptroller General of the State and paid by the State

Treasurer upon presentation of vouchers regularly drawn by the chairman and the secretary of the Board, *Provided*, however, that at no time shall the total amount of warrants exceed the total amount of fees paid under this Act. On or before the 30th day of June in each year the Board shall submit to the Governor a written report of its transactions for the preceding year, and shall file with the SECRETARY OF STATE a copy of said report, together with a complete statement of the receipts and expenditures of the Board, attested by the affidavits of the chairman and secretary, and a complete list of those registered under this Act, with their addresses and the dates of their certificates of registration. The Board shall hold at least two regular meetings in each year, special meetings may be called in such manner as the by-laws of the Board may provide. Notice of all meetings shall be given in such manner as the by-laws of the Board may provide. At all meetings a majority of the Board shall constitute a quorum.

Section 7. The Board shall have power to employ, during its pleasure such clerks and other employees and to rent such offices as may be necessary for the proper performance by it of its duties as in this Act prescribed.

Section 8. The Board shall admit to examination any candidate who pays a fee of Fifteen (\$15.00) Dollars and submits evidence verified by oath and satisfactory to the Board that he

(a) Is more than twenty-one (21) years of age.

(b) Is of good character, and

(c) Has been engaged in the practice of professional engineering or land surveying for at least four (4) years, and during that period has had charge of said work, as principal or assistant, for at least one year.

(d) Or, in lieu of requirement (c) specified above, is a graduate from an engineering school.

(e) *Provided*, however, That no person shall be eligible for registration who is not a citizen of the United States of America unless he has filed his first papers for naturalization; and then he will be required to have completed his naturalization within three years from the date he is granted certificate of registration, or he will be deprived from further practicing his profession or calling as set forth in this Act.

Section 9. Examinations for registration shall be held at regular or special meetings of the Board at such times and at such places within the State in each year as the Board shall determine. The scope of the examinations and the methods of procedure shall be prescribed by the Board with special reference to the applicant's ability to design and supervise engineering works which shall insure the safety of life and property. Examinations shall be held to determine the qualifications of applicants for registration separately in surveying or in any one of the branches of professional engineering, embracing civil, mechanical and electrical, mining or naval architecture. The examination may be either oral or partly written. As soon as practicable after the close of each examination the members of the Board who shall have conducted such examination shall make and sign and file with the secretary a certificate stating the action of the Board upon the application of each candidate, whereupon the Secretary of the Board shall notify each candidate of the result of his examination. A candidate failing on examination, may, after an interval of not less than one year, be examined again.

Section 10. In the case of examination as professional engineer, upon receipt of an additional fee of Ten (\$10.00) Dollars, the Board shall issue to any applicant who has been reported to have passed the examination conducted by the Board, a certificate of registration as a professional engineer in the branch or branches in which he is qualified, signed by the

chairman and secretary of the Board under the seal of the Board, whereupon such applicant shall be authorized to practice professional engineering as defined by this Act. In case of examination as land surveyor the Board shall issue to any applicant who has been reported to have passed the examination conducted by the Board, a certificate of registration as a land surveyor, signed by the chairman and secretary of the Board under the seal of the Board, whereupon such applicant shall be authorized to practice land surveying as defined by this Act. A certificate of registration as a professional engineer shall not carry with it the right to practice land surveying unless it is specially permitted by said certificate, which permission shall be granted by the Board without additional fee in the case of any applicant duly qualified as prescribed by the rules of the Board.

Section 11. At any time within one year after this Act has become effective, upon due application thereof and the payment of a fee of twenty-five (\$25.00) dollars the Board shall issue a certificate of registration, as provided by Section 10, to any professional engineer or land surveyor who shall submit evidence under oath and satisfactory to the Board that he is of good character, has been a resident of the State of South Carolina for at least one year immediately preceding the date of his application, and has practiced professional engineering or land surveying preceding the date of his application, and during that period has had charge of engineering work or land surveying as principal or assistant. After this Act shall have been in effect one year, the Board shall issue certificates of registration only as provided in Sections 5, 10 and 11 hereof.

Section 12. The Board shall, from time to time examine the requirements for the registration of professional engineers in other States, territories and countries and shall record those in which, in the judgment of the Board, standards not lower than those provided by this Act are maintained. The Secretary of the Board, upon the presentation to him by any person of satisfactory evidence that such person holds a certificate of registration issued to such person by proper authority in any such State, territory, or county as recorded and upon receipt by him of a fee of Twenty-five (\$25.00) Dollars shall issue to such person a certificate of registration under this Act, signed by the Chairman and Secretary under the seal of the Board whereupon the person to whom such certificate is issued shall be entitled to all the rights and privileges conferred by a certificate issued after examination by the Board.

Section 13. It shall be the duty of the Board to inquire into the identity of any person practicing or claiming to be a land surveyor, or professional engineer. The Board shall have the power by four-fifths vote to revoke the certificate of any professional engineer or land surveyor registered hereunder, found guilty of any fraud, deceit or gross incompetency in his practice, or guilty of any fraud or deceit in obtaining his certificate, or in case he is found by the same vote to be incompetent. Proceedings for the revocation of license of registration shall be begun by filing with the Secretary of the Board written charges against the accused. The Board shall designate a time and place for a hearing and shall notify the accused of this action and furnish him a copy of all charges at least ten days prior to the date of the hearing. The accused shall have the right to appear personally or by counsel, to cross examine witness or to produce witnesses in his defense. The Board may summons witnesses and administer oaths. It shall be the duty of the Board to prosecute any persons violating the provisions of this Act.

Section 14. Every certified professional engineer so registered under this Act who desires to continue the practice of his profession shall an-

nually pay to the Secretary of the Board a fee of Five (\$5.00) Dollars on or before a date to be fixed by the Board, for which fee a renewal certificate of registration for the current year shall be issued.

Section 14-A. Every land surveyor so registered under this Act who desires to continue the practice of his profession shall annually pay to the Secretary of the Board a fee of Three (\$3.00) Dollars on or before a date to be fixed by the Board, for which fee a renewal certificate of registration for the current year shall be issued.

Section 15. An unrevoked certificate and endorsement of registry made as provided in this Act shall be presumptive evidence in all courts and places that the person named therein is legally registered.

Section 16. The provisions of the Act shall apply to every corporation, domestic or foreign, engaged in the business of professional engineering within the State of South Carolina, except that certificate of registration issued hereunder shall be held by one or more of its officers or employees instead of by such corporation.

Section 17. The Board each year shall certify and publish a complete list of registered professional engineers and land surveyors with their business address.

Section 17-A. Nothing contained in this Act shall apply to land surveyors who shall have been engaged in the active practice of their profession as land surveyors as long as five years prior to the date hereof, but such surveyors may obtain registration upon voluntary compliance with the terms of this Act.

Section 18. Any person who, not being then legally authorized to practice professional engineering or land surveying within the State according to the provisions of this Act and so registered according to law, shall practice, or attempt or advertise to practice, or hold himself out as authorized to practice professional engineering or land surveying or shall use in connection with his name, or otherwise assume, use or advertise any title or designation tending to convey the impression that he is a professional engineer or registered land surveyor, shall be deemed guilty of a misdemeanor and shall for each offense of which he is convicted be punished by a fine not to exceed five hundred (\$500.00) dollars or by imprisonment not to exceed three months, or both such fine and imprisonment.

Section 19. This Act shall not apply to military engineering nor to any professional engineer working for the United States Government, nor to employees of railroads nor inter-state public service corporations; nor to any professional engineer employed as an advisor or an assistant to a professional engineer registered under this Act; nor to any professional engineer coming from without this State and employed therein until a reasonable time, as prescribed by the rules of the Board, shall have elapsed to permit the registration of such person under this Act, *Provided*, That before practicing within this State he shall have applied for the issuance to him of a certificate of registration and shall have paid the fee prescribed in this Act.

Section 20. This Act shall not apply to any architect registered by the State of South Carolina under the provisions of the Act creating the State Board of Architecture.

Section 21. Persons licensed to practice professional engineering in this State under this Act shall be exempt from the provision of any Act providing for the licensing of architects or regulating the practice of architecture

in so far as the definition of "buildings" in any said Architects' Act may include, or be included in the structures enumerated in Section 3 of this Act.

Section 22. All laws or parts of laws in conflict with the provisions of this Act be and the same are hereby repealed.

Section 23. This Act shall take effect immediately upon its passage and approval by the Governor.

Approved the 22nd day of March, A. D., 1922.

R. A. COOPER, Governor.

Amending Act Approved the 10th day of March, A. D., 1928.

JOHN G. RICHARDS, Governor.

National Council of State Boards of Engineering Examiners

ARTICLES OF AGREEMENT ON RECIPROCAL REGISTRATION

Article 1. Reciprocal registration as provided for in these Articles of Agreement shall be granted only to an applicant who is already registered in some state which is a member of this Council. A detailed professional record, properly attested, and accompanied by references as to character and qualification from three registered practicing engineers shall be filed with the applicant's board of examiners. Qualification for reciprocal registration shall be determined upon the basis of such professional record thorough consideration of which shall constitute examination.

Article 2. Engineering experience gained by the applicant prior to his reaching the age of eighteen years shall not be counted as a part of his professional experience.

Article 3. Professional experience shall be considered as beginning when the candidate has entered upon a position in professional engineering work which requires original thought and responsibility. For example:

(a) In the field experience shall begin to count when the applicant reaches a position or responsibility equivalent to that of actual transitman.

(b) In the shop or laboratory experience shall begin to count only after apprenticeship, foremanship, inspectorship or other subordinate positions unless the work done shows specifically that the applicant possesses originality of design and has had responsibility in his subordinate positions.

(c) In the office or drafting room experience shall begin to count when the applicant ceases to do merely tracing, lettering, or purely mechanical work requiring for its performance merely manual dexterity, and enters a position of responsibility where he begins actual design.

(d) Experience in the teaching of engineering shall begin to count when the applicant is a full-time instructor in engineering in an engineering school of recognized standing and each year of teaching shall be considered equivalent to one year of practice.

Article 4. The applicant shall have had ten years of experience in professional engineering, and in addition shall show that he is qualified to design as well as to direct engineering operations, as evidence of qualification for reciprocal registration, and his experience record shall show progressive advancement in the character of the work performed.

Each case shall be considered on its merits, and the experience record must be given in such complete detail that the board of examiners can determine the character of work performed by the applicant.

Article 5. Graduation from an engineering school of recognized standing shall be accepted as the equivalent of four years of such practice.

An engineering school of recognized standing shall be one which requires the equivalent of a high school or preparatory school diploma as an entrance requirement and demands the equivalent of a four years' course in engineering for graduation.

Article 6. Making reciprocal registration operative between the states shall be done by means of certification from one state to another of the applicant's qualifications. This certification shall be by means of a card

or form bearing the date, serial number and signatures of the officers and the seal of the board of the state issuing same. This card is to be printed and distributed by the Council of State Boards of Engineering Examiners.

Article 7. Whenever an applicant applies to his own state board for reciprocal registration, if his qualifications fully comply with the standard herein provided, he shall be granted the same.

(Note: The Council has by resolution interpreted "that he may be granted a reciprocal card by the state in which he was first registered, provided the state of which he is a resident does not have a law providing for the registration of engineers.")

Article 8. The aforesaid reciprocal registration certificate shall be *prima facie* evidence of qualification for registration in any state that is a member of this Council and that has subscribed to these Articles of Agreement. When such reciprocal registration certificate is presented, together with the legal fee required and such information (other than evidence of qualification) as may be requested for the records of the board to which the application is made, such board shall issue a registration certificate to the applicant.

Article 9. Any reciprocal certificate may be revoked by the state issuing same upon presentation to its board of examiners of good and sufficient evidence of incompetency, or proof that applicant's character warrants such revocation.

Article 10. Should any question or disagreement in the interpretation of these Articles arise, such questions shall be referred to the Council for action at its next regular meeting, or if more expeditious action shall be necessary, they may be acted upon by the Council by letter ballot.

If action is taken by letter ballot, such action shall be conducted through the office of the Secretary of the Council in the customary manner; and the votes shall be counted not later than sixty days after forwarding from his office, by registered mail, of questions at issue. The Secretary of the Council shall thereupon immediately certify to the various member boards the roll call and results of the vote, and the determination of the questions at issue; and consequent actions shall be in accordance with the majority of the votes recorded.



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